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STATUS OF THE CLAIMS

1-66. (cancelled).

- 67. (withdrawn) A method of treating a staphylococcal infection in a human subject, comprising: a) providing a subject comprising a staphylococcal infection, wherein said subject does not harbor a catheter or prosthetic device; and b) administering to said subject a recombinantly produced lysostaphin in a dose of 0.16 to 5.0 mg/kg/day.
- 68. (withdrawn) The method of Claim 67, wherein said staphylococcal infection does not comprise infection of an organ selected from the group consisting of heart, blood, kidney, lung, bone and meninges.
- 69. (withdrawn) The method of Claim 67, comprising administering to said subject a recombinantly produced lysostaphin in a dose of 0.16 to 2.5 mg/kg/day.
- 70. (withdrawn) The method of Claim 67, wherein said recombinantly produced lysostaphin is administered via intravenous administration.
- 71. (withdrawn) The method of Claim 67, wherein said recombinantly produced lysostaphin is administered via subcutaneous injection.
- 72. (withdrawn) The method of Claim 67, wherein said infection comprises greater than 105 viable bacterial cells.
- 73. (withdrawn) The method of Claim 67, wherein said infection if left untreated possesses the ability to kill un-treated subjects within 48 hours.
- 74. (withdrawn) The method of Claim 67, wherein said infection ifleft untreated possesses the ability to kill un-treated subjects within 24 hours.

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- 75. (withdrawn) The method of Claim 67, wherein said dose is administered in multiple doses.
- 76. (withdrawn) The method of Claim 67, further comprising administering an antimicrobial agent selected from the group consisting of rifamycin, a glycopeptides and combinations thereof.
- 77. (withdrawn) The method of Claim 76, wherein said antimicrobial agent is administered on a day subsequent to administration of said recombinantly produced lysostaphin.
- 78. (withdrawn) The method of Claim 67, wherein said method eliminates said infection in said subject.
- 79. (previously presented) A method of treating a staphylococcal infection in a human subject, comprising:
- a) providing a subject comprising a staphylococcal infection, wherein said infection comprises infection of an organ; and
- b) administering to said subject a recombinantly produced lysostaphin in a dose of 5 to 20 mg/kg/day.
- 80. (previously presented) The method of Claim 79, wherein said organ is selected from the group consisting of heart, blood, kidney, lung, bone and meninges.
- 81. (previously presented) The method of Claim 79, wherein said subject harbors a catheter or prosthetic device.
- 82. (previously presented) The method of Claim 79, comprising administering to said subject a recombinantly produced lysostaphin in a dose of 15 mg/kg/day.
- 83. (previously presented) The method of Claim 79, wherein said recombinantly produced lysostaphin is administered via intravenous administration.

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84. (previously presented) The method of Claim 79, wherein said recombinantly produced lysostaphin is administered via subcutaneous injection.

- 85. (cancelled)
- 86. (currently amended) The method of Claim [[85]]79, wherein said <u>staphylococcal infection</u> <u>comprises baeterial cells comprise</u> methicillin resistant *Staphylococcus aureus* (MRSA).
- 87. (previously presented) The method of Claim 79, wherein said infection if left untreated possesses the ability to kill un-treated subjects within 48 hours.
- 88. (previously presented) The method of Claim 79, wherein said dose is administered in multiple doses.
- 89. (previously presented) The method of Claim 88, wherein said multiple doses comprise three separate and equal administrations.
- 90-91. (cancelled)
- 92. (currently amended) The method of Claim 79, wherein said method sterilizes <u>heart valve</u> vegetations within said subject.
- (previously presented) The method of Claim 79, wherein said method eliminates said infection in said subject.
- 94. (new) A method of treating an established staphylococcal infection in a human subject, comprising:
- a) providing a subject with endocarditis; and
- b) administering to said subject a recombinantly produced lysostaphin in a dose of 15 mg/kg/day.